

IN THE ABSTRACT:

~~To decrease~~ A method for decreasing the streak artifact in the reconstructed image due to the existence of foreign matter of high X-ray absorption rate such as ~~metals,~~ metals.  
~~the~~ The method includes separating discrete region containing the data having abrupt change of value ~~is separated from~~ the projection data in the sequential order of radiographic detector elements, transforming the data is transformed to continuous data such that the value gradually smoothly changes (~~step ST2~~), ~~then only~~ filtering the continuous data ~~is filtered~~ (~~step ST3~~), ~~thus~~ composing the filtered data ~~is composed~~ with the data of the discrete regions to form the projection data used for the image reconstruction (~~step ST4~~).